Model Course Pathways

Pathway 1【Home University: University of Tsukuba】

Ideal Graduates	International planning coordinator developing functional foods at R&D department of food related companies (e.g. Pharma Foods International Co., Ltd., Kracie Foods, Ltd., Kirin Company, Ltd.)				
Prospective Students	Graduates from School of Medical Sciences (main major: International Medical Science), UT				
Objective	To study potential functional molecules in microbes and its influences to human health **Title of Comprehensive Research on Integrated Themes**: Molecular understanding of regulation of intestinal flora by Chinese medicine resources (Cordyseps spp) and application for development of health foods				
Academic Advisor	Primary Advisor (UT): Ryosuke Ohniwa, Co-advisor (NTU): Tang-Long Shen, Co-advisor (UB): Catherine Bennetau				
	1st Semester @ UT	2nd Semester @NTU	3rd Semester @ UB	4th Semester @ UT	Total
Foundation Subjects	Introduction of Agro-Biomedical Science [1] Environmental Health Perspective [2] Entrepreneurship Training I [2] English in Medical Science and Technology [1]		Job or Internship Hunting Including Technological Watch [1.5]		
Total	6.0		1.5		7.5
Specialized Subjects I	Agro-Biomedical Science Laboratory Seminar I [1] Research and Development for Agro-Biomedical Science I [3]	Fusion of Field and Laboratory Studies [3] Internship in Taiwan [3]	International Scientific Seminars [1.5] Integrative Unit with Omic & Bioinformatic Tools [3] Field to Laboratory Practices with Data Management & Data Mining [1.5]	Internship in Japan [3]	
Total	4.0	6.0	6.0	3.0	19.0
Specialized Subjects II	Basic Toxicology [1] Critical Path Research Management [2] Genomic Medicine [2] Cancer Biology [2] Advanced Food System [2]	Contemporary Issues in Global Health [3] Cellular Network of Biological Molecules [2] Agriculture in Taiwan [2] Applied Translational Microbiology [3]	Water and Food-borne Microbiological Diseases and Dietary Habits in Human Population [1.5] Nutrition, Microbiome and Immunity [1.5] Nutrition, Physiological Regulation and Major Human Diseases [1.5] Nutrition & Health Organisation in Europe [1.5] Integrating & Advanced Plant Breeding [1.5]		
Total	7.0	10.0	7.5		24.5
Grand Total	17.0	16.0	15.0	3.0	51.0

Black letter: Required Subject, Blue letter: Elective Subject

Model Course Pathways

Pathway 2【Home University: National Taiwan University】

Ideal Graduates	Safety assessment manager engaging in investigation of natural low-molecular substances (e.g. Taiwan Family Mart Co., Ltd, I-Mei Foods Co., Ltd., Uni-President Enterprises Corp.)				
Prospective Students	Graduates from College of Public Health, NTU				
Objective	To study safety of chemical substances in food resources, medicine and environment **Title of Comprehensive Research on Integrated Themes**: Socio-medical understanding of influence of environmental pollutants to human bodies through contamination in food resources under a perspective of global health				
Academic Advisor	Primary Advisor (NTU): Chang-Chuan Chan, Co-advisor (UT): Yoshito Kumagai, Co-advisor (UB): Jean-Pierre Savineau				
	1st Semester @ UT	2nd Semester @NTU	3rd Semester @ UB	4th Semester @ NTU	Total
Foundation Subjects	Introduction of Agro-Biomedical Science [1] Environmental Health Perspective [2] Entrepreneurship Training I [2] English in Medical Science and Technology [1]		Job or Internship Hunting Including Technological Watch [1.5]		
Total	6.0		1.5		7.5
Specialized Subjects I	Agro-Biomedical Science Laboratory Seminar I [1] Research and Development for Agro-Biomedical Science I [3]	Fusion of Field and Laboratory Studies [3] Internship in Taiwan I [3]	International Scientific Seminars [1.5] Integrative Unit with Omic & Bioinformatics Tools [3] Field to Laboratory Practices with Data Management & Data Mining [1.5]		
Total	4.0	6.0	6.0		16.0
Specialized Subjects II	Basic Toxicology [1] Critical Path Research Management [2] Cancer Biology [2] Health Care Policy and Management / Health Service Administration [2]	Contemporary Issues in Global Health [3] Cellular Network of Biological Molecules [2] Agriculture in Taiwan [2] Environmental and Occupational Health [3]	Water and Food-borne Microbiological Diseases and Dietary Habits in Human Population [1.5] Nutrition, Microbiome and Immunity [1.5] Nutrition, Physiological Regulation and Major Human Diseases [1.5] Nutrition & Health Organisation in Europe [1.5] Quality of Animal-based Foodstuff [1.5]		
Total	7.0	10.0	7.5		24.5
Grand Total	17.0	16.0	15.0		48.0

Black letter: Required Subject, Blue letter: Elective Subject

Model Course Pathways

Pathway 3【Home University: University of Bordeaux】

Ideal Graduates	International research coordinator, researcher and R&D staff in international agro-companies (e.g. Syngenta, Maisadour, Limagrain, Gautier Semences, Arysta Life Sciences, Pioneer, Bayer, etc.,)				
Prospective Students	Graduates from College of Sciences and Technology, UB				
Objective	Understanding the inter-disciplinary field of the impact of food production and food processing on human health. **Title of Comprehensive Research on Integrated Themes**: Imagine and prove the safety of the food of tomorrow with respect to both sustainable agriculture, plant protection and human health.				
Academic Advisor	Primary Advisor (UB): Dominique Rolin, Co-advisor (UT): Chiaki Matsukura, Co-advisor (NTU): Tang-Long Shen				
	1st Semester @ UT	2nd Semester @NTU	3rd Semester @ UB	4th Semester @ UB	Total
Foundation Subjects	Introduction of Agro-Biomedical Science [1] Environmental Health Perspective [2] Entrepreneurship Training I [2] Writing Scientific Papers in English for Students of Agro-Bioresources Science and Technology [1]		Job or Internship Hunting Including Technological Watch [1.5]		
Total	6.0		1.5		7.5
Specialized Subjects I	Agro-Biomedical Science Laboratory Seminar I [1] Research and Development for Agro-Biomedical Science I [3]	Agro-Biomedical Science Laboratory Seminar II [1] Fusion of Field and Laboratory Studies [3] Research and Development for Agro-Biomedical Science II [2]	International Scientific Seminars [1.5] Integrative Unit with Omic & Bioinformatic Tools [3] Field to Laboratory Practices with Data Management & Data Mining [1.5]	Internship in France [15]	
Total	4.0	6.0	6.0	15.0	31.0
Specialized Subjects II	Basic Toxicology [1] Critical Path Research Management [2] Health Care Policy and Management / Health Service Administration [2] Advanced Course on Global Food Security [2]	Contemporary Issues in Global Health [3] Cellular Network of Biological Molecules [2] Agriculture in Taiwan [2] Molecular Nutrition [2]	Nutrition, Microbiome and Immunity [1.5] Nutrition, Physiological Regulation and Major Human Diseases [1.5] Impact of Environmental Stresses on Crops Production [1,5] Integrating & Advanced Plant Breeding [1,5] Green Biotechnology [1.5]		
Total	7.0	9.0	7.5		23.5
Grand Total	17.0	15.0	15.0	15.0	62.0

Black letter: Required Subject, Blue letter: Elective Subject